

Experiment Number: 520607

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Anthracene

CAS Number: 120-12-7

Date Report Requested: 09/12/2018

Time Report Requested: 17:36:01

NTP Study Number:

520607

Study Result:

Weakly Positive

Experiment Number: 520607

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Anthracene

CAS Number: 120-12-7

Date Report Requested: 09/12/2018

Time Report Requested: 17:36:01

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 4% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	121 ± 6.1	113 ± 6.6	115 ± 8.7	101 ± 8.2	108 ± 4.2
33.0					
100.0	102 ± 0.3	114 ± 7.5	125 ± 7.3	115 ± 14.4	134 ± 15.6
333.0	115 ± 10.7	100 ± 13.3	111 ± 5.4	126 ± 8.2	139 ± 8.2
1000.0	120 ± 4.7 ^P	98 ± 12.3 ^P	140 ± 10.3 ^P	142 ± 7.6 ^P	136 ± 6.8 ^P
3333.0	92 ± 15.9 ^P	95 ± 7.3 ^P	161 ± 4.7 ^P	130 ± 1.7 ^P	142 ± 12.6 ^P
10000.0	87 ± 5.2 ^P	80 ± 2.7 ^P	158 ± 18.4 ^P	131 ± 3.5 ^P	125 ± 5.5 ^P
Trial Summary	Negative	Negative	Equivocal	Equivocal	Equivocal
Positive Control ²	481 ± 24.7			372 ± 34.0	1836 ± 102.5
Positive Control ³		397 ± 12.2			

Experiment Number: 520607

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Anthracene

CAS Number: 120-12-7

Date Report Requested: 09/12/2018

Time Report Requested: 17:36:01

Strain: TA100

Dose (ug/Plate)	With 10% Rat S9	With 20% Rat S9	With 4% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	123 ± 3.9	123 ± 11.7	134 ± 3.2	116 ± 9.0	116 ± 6.8
33.0			129 ± 3.8		
100.0	141 ± 5.8	205 ± 10.3	145 ± 7.2	146 ± 6.0	164 ± 1.0
333.0	150 ± 5.2	186 ± 13.3	128 ± 2.0	159 ± 11.3	157 ± 7.8
1000.0	174 ± 8.8 ^P	192 ± 10.0 ^P	136 ± 3.2 ^P	157 ± 5.3 ^P	152 ± 3.8 ^P
3333.0	164 ± 8.5 ^P	228 ± 9.0 ^P	165 ± 12.1 ^P	151 ± 7.5 ^P	140 ± 9.6 ^P
10000.0	210 ± 11.0 ^P	282 ± 8.1 ^P		141 ± 4.4 ^P	138 ± 3.2 ^P
Trial Summary	Weakly Positive	Positive	Equivocal	Equivocal	Equivocal
Positive Control ²	530 ± 16.3			1419 ± 37.9	1834 ± 91.6
Positive Control ³					

Experiment Number: 520607
Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data
Test Compound: Anthracene
CAS Number: 120-12-7

Date Report Requested: 09/12/2018
Time Report Requested: 17:36:01

Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 20% Hamster S9
Vehicle Control ¹	102 ± 7.1	109 ± 5.7
33.0	145 ± 8.8	177 ± 8.2
100.0	143 ± 1.9	196 ± 6.7
333.0	123 ± 7.4	204 ± 8.4
1000.0	163 ± 15.8 ^P	205 ± 10.5 ^P
3333.0	186 ± 10.2 ^P	235 ± 6.7 ^P
10000.0		
Trial Summary	Equivocal	Positive
Positive Control ²	1380 ± 23.3	
Positive Control ³		

Experiment Number: 520607

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Anthracene

CAS Number: 120-12-7

Date Report Requested: 09/12/2018

Time Report Requested: 17:36:01

Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	20 ± 4.6	30 ± 3.4	11 ± 1.5	9 ± 1.8	7 ± 1.2
100.0	16 ± 0.7	22 ± 2.3	6 ± 0.7	11 ± 3.2	11 ± 1.7
333.0	12 ± 2.1	25 ± 2.3	8 ± 1.9	12 ± 2.0	11 ± 2.1
1000.0	12 ± 0.3 ^p	25 ± 1.8 ^p	8 ± 1.7 ^p	13 ± 0.6 ^p	12 ± 0.9 ^p
3333.0	12 ± 1.2 ^p	25 ± 1.8 ^p	9 ± 0.7 ^p	6 ± 1.5 ^p	10 ± 0.6 ^p
10000.0	12 ± 0.9 ^p	23 ± 1.5 ^p	8 ± 1.2 ^p	9 ± 0.7 ^p	7 ± 0.6 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³	358 ± 42.7	472 ± 33.9			
Positive Control ⁴			157 ± 14.1	489 ± 17.3	496 ± 4.9

Experiment Number: 520607

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Anthracene

CAS Number: 120-12-7

Date Report Requested: 09/12/2018

Time Report Requested: 17:36:01

Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	10 ± 1.5
100.0	9 ± 2.0
333.0	10 ± 1.7
1000.0	10 ± 2.1 ^P
3333.0	6 ± 0.6 ^P
10000.0	8 ± 0.7 ^P
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	586 ± 12.2

Experiment Number: 520607

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Anthracene

CAS Number: 120-12-7

Date Report Requested: 09/12/2018

Time Report Requested: 17:36:01

Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	3 ± 0.7	8 ± 2.6	5 ± 1.8	7 ± 0.6	6 ± 1.8
100.0	4 ± 2.0	6 ± 1.2	9 ± 0.6	10 ± 0.0	8 ± 1.2
333.0	5 ± 0.9	6 ± 1.0	10 ± 3.1	8 ± 0.9	8 ± 2.7
1000.0	5 ± 1.5 ^P	8 ± 2.0 ^P	10 ± 0.3 ^P	9 ± 3.2 ^P	12 ± 1.5 ^P
3333.0	4 ± 0.7 ^P	5 ± 0.3 ^P	11 ± 1.2 ^P	8 ± 1.5 ^P	10 ± 2.7 ^P
10000.0	6 ± 1.5 ^P	5 ± 1.5 ^P	9 ± 2.2 ^P	7 ± 3.4 ^P	12 ± 1.0 ^P
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			152 ± 16.4	251 ± 20.2	320 ± 28.6
Positive Control ⁵	177 ± 9.3	283 ± 42.9			

Experiment Number: 520607
Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data
Test Compound: Anthracene
CAS Number: 120-12-7

Date Report Requested: 09/12/2018
Time Report Requested: 17:36:01

Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	7 ± 1.0
100.0	8 ± 1.9
333.0	11 ± 0.7
1000.0	9 ± 1.0 ^p
3333.0	6 ± 1.2 ^p
10000.0	6 ± 0.9 ^p
Trial Summary	Negative
Positive Control ⁴	268 ± 14.4
Positive Control ⁵	

Experiment Number: 520607

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Anthracene

CAS Number: 120-12-7

Date Report Requested: 09/12/2018

Time Report Requested: 17:36:01

Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	17 ± 1.5	21 ± 3.1	26 ± 3.7	28 ± 5.3	26 ± 2.9
100.0	10 ± 2.4	14 ± 3.5	34 ± 2.1	34 ± 2.7	35 ± 1.5
333.0	12 ± 1.9	15 ± 1.2	29 ± 1.5	38 ± 0.3	37 ± 0.9
1000.0	12 ± 0.7 ^P	15 ± 1.2 ^P	32 ± 2.4 ^P	32 ± 3.5 ^P	38 ± 2.5 ^P
3333.0	12 ± 2.2 ^P	14 ± 1.5 ^P	33 ± 3.0 ^P	28 ± 1.2 ^P	43 ± 6.0 ^P
10000.0	10 ± 0.9 ^P	7 ± 1.5 ^P	35 ± 3.7 ^P	30 ± 2.5 ^P	34 ± 4.2 ^P
Trial Summary	Negative	Negative	Negative	Negative	Equivocal
Positive Control ²			342 ± 1.0	1522 ± 82.5	1244 ± 65.3
Positive Control ⁶	510 ± 4.0	378 ± 11.6			

Experiment Number: 520607
Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data
Test Compound: Anthracene
CAS Number: 120-12-7

Date Report Requested: 09/12/2018
Time Report Requested: 17:36:01

Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	38 ± 2.7
100.0	39 ± 3.5
333.0	39 ± 1.5
1000.0	38 ± 1.5 ^p
3333.0	36 ± 2.0 ^p
10000.0	31 ± 2.9 ^p
Trial Summary	Negative
Positive Control ²	1551 ± 1.5
Positive Control ⁶	

Experiment Number: 520607

Test Type: **Genetic Toxicology - Bacterial
Mutagenicity**

G06: Ames Summary Data

Test Compound: **Anthracene**

CAS Number: **120-12-7**

Date Report Requested: **09/12/2018**

Time Report Requested: **17:36:01**

LEGEND

Values given as Mean or Mean \pm Standard Error Mean

The number of samples = 3, unless samples marked toxic or contaminated were excluded from mean and SEM calculations

CAS Number = Chemical Abstracts Service registry number

1: Vehicle Control: Dimethyl Sulfoxide

2: 1.0 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate Sodium Azide

4: 2.5 ug/Plate 2-Aminoanthracene

5: 50.0 ug/Plate 9-Aminoacridine

6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

**** END OF REPORT ****